Subject Index to Volume 13

Acid maltase, deficiency, role of high-protein diet, 321
Acquired immunodeficiency syndrome, reduced cardiac selenium content, 644
Adrenal gland, hormone secretion, after severe head injury, 5
Age, grip strength related to, predictor of postoperative complications, 30
Aluminum
  parenteral nutrition, response of preterm infants, 516
  plasma and urinary levels, tissue loading and, preterm twins, 428
American Society for Parenteral and Enteral Nutrition
  Presidential Address, 445
  self-referral of patients, Board of Directors statement, i
Amikacin, stability, total nutrient admixture, 505
Amino acid
  branched-chain
    serotonin receptor activity and, hepatectomized rat, 235
    total parenteral nutrition, burn injury (rat), 484
  infusion, protein sparing with, surgical patients, 223
  inhibited uptake, skeletal muscle, during starvation (rat), 344
  intravenous, safety, during pregnancy, letters, 441
  metabolism, thermal burns, review, 196
  parenteral, hepatic dysfunction and, rat, 240
  plasma concentrations, preoperative intravenous nutrition and, 596
  serum pattern, comparison of 2 solutions, pediatric patients, 41
Antibiotic therapy, streptokinase and, catheter-related bacterial sepsis, 92
Ascorbic acid, reaction with selenious acid, total parenteral nutrition solutions, 185
Azelaic acid, as energy substrate, preliminary studies, 299

Bacteremia, enteral nutrition as cause of, 228
Bacteria, translocation, protein malnutrition and (mice), 572
Blood sampling, heated dorsal hand vein, 102
Bloodstream, nosocomial infection, enteral nutrition solutions as cause of, 228
Body composition
  energy substrate influence, intravenous nutrition, 471
  insulin-like growth factor-I and, chronic malnutrition, 392
  parenteral nutrition effects, inflammatory bowel disease, pediatric patients, 366
Bone disease, metabolic, D-lactate accumulation and, long-term parenteral nutrition, 132
Book Reviews, 220, 335, 440, 562, 668,
Bowel disease
  inflammatory
    effects of parenteral nutrition on body compostion, pediatric patients, 366
    enteral nutrition-associated liver function test derangement, 401
Brain, serotonin receptors, after hepatectomy, effect of branched-chain amino acid, rat, 235
Brain damage, during pregnancy, fetal nutrition after, 432
Brush border, hydrolases, effect of oral refeeding, rat ileum and jejunum, 37
Burn injury
  amino acid metabolism, review article, 196
  enteral nutrition, lipid-associated diarrhea, letters, 221
  total parenteral nutrition, enriched branched-chain amino acids effect (rat), 484
  yeast translocation after, prevention by single enteral feeding, 565

Cachexia, cancer, artificial nutrition effects, 406
Calcium phosphate, pulmonary deposition, home total parenteral nutrition, 209
Cancer
  cachexia, artificial nutrition effects, 406
  forearm muscle dynamometry, as preoperative indicator, 34
  gastric, preoperative nutritional assessment, 286
  malnutrition, fatty acid profiles, 501
Candida albicans, translocation, prevention by enteral feeding, after burn injury, 565
Carbamazepine, *in vitro* recovery, in presence of absence of Ensure, 272
Cardiomyopathy
  reversible, selenium deficiency-associated, 663
  selenium deficiency and, acquired immunodeficiency syndrome, 644
Cast syndrome, in cerebral palsy, pediatric patient, 326
Catheter
  Broviac
    internal fracture, pediatric patient, 560
    securing method, pediatric patients, 218
  central venous
    implantable, alternative placement, 666
    repositioning method, 438
    subdural intravenous fat collection due to, neonate, 661
    testing for perforation, 309
  external, comparison, implanted reservoir, home total parenteral nutrition, 478
  Hickman
    indwelling, bacterial sepsis secondary to, 92
    infection, osteomyelitis of the clavicle secondary to, 426
  Hickman-Broviac, central venous thrombosis and, oncologic patients, 397
  indwelling, spontaneous retraction, letters, 442
  malposition, repositioning method, 438
  obstruction, total nutrient admixture, analysis of filter content, 641
  spontaneous retraction, letter, 564
Central nervous system, serotonin metabolism in, effect of fat emulsion infusion, rat, 65
Cerebral palsy, functional duodenal obstruction in, pediatric patient, 326
Cholecystectomy, esophagogastric decompression and enteral feeding after, randomized prospective trial, 377
Cholestasis
  effects of nutritional components on, neonatal rabbit, 265
  hyperalimentation-associated, oral gentamicin effect, neonate, 633
  total parenteral nutrition-induced, contributing factors, neonate, 586
Cholesterol, intravenous fat infusion and, postoperative patients, 77
Clavicle, osteomyelitis, secondary to catheter-related infection, 426
Coagulopathy, heparin-associated, in subclinical vitamin K deficiency, 324
Constipation, diabetes mellitus-related, nutritional support techniques, 84
Contamination
  bacterial
    continuous drip feedings, 18
    reused enteral nutrition systems, 23
Copper, deficiency, during total parenteral nutrition, case reports, 421
Corticosteroids, catabolic effect, major head injury, 372
Creatinine, urinary, energy expenditure related to, alcoholic hepatitis, 124
Crohns disease
  refractory, remission induction with whole diet, 362
  treatment comparison, steroids and bowel rest versus elemental diet, 455
Cysteine, total concentrations, cord blood tryptophan concentrations and, letter, 106
Cystic fibrosis, fat intake in, prospective study, 296

Decompression, esophagogastric, enteral feeding and, after cholecystectomy, 377
Dexamethasone, catabolic effect, major head injury, 372
Diabetes mellitus
  gastrointestinal disorders due to, overview, 84
  malnutrition during pregnancy, home total parenteral nutrition, 214
  parenteral nutrition and, review article, 545

Subject Index to Volume 13

Acid maltase, deficiency, role of high-protein diet, 321
Acquired immunodeficiency syndrome, reduced cardiac selenium content, 644
Adrenal gland, hormone secretion, after severe head injury, 5
Age, grip strength related to, predictor of postoperative complications, 30
Aluminum
  parenteral nutrition, response of preterm infants, 516
  plasma and urinary levels, tissue loading and, preterm twins, 428
American Society for Parenteral and Enteral Nutrition
  Presidential Address, 445
  self-referral of patients, Board of Directors statement, i
Amikacin, stability, total nutrient admixture, 505
Amino acid
  branched-chain
    serotonin receptor activity and, hepatectomized rat, 235
    total parenteral nutrition, burn injury (rat), 484
  infusion, protein sparing with, surgical patients, 223
  inhibited uptake, skeletal muscle, during starvation (rat), 344
  intravenous, safety, during pregnancy, letters, 441
  metabolism, thermal burns, review, 196
  parenteral, hepatic dysfunction and, rat, 240
  plasma concentrations, preoperative intravenous nutrition and, 596
  serum pattern, comparison of 2 solutions, pediatric patients, 41
Antibiotic therapy, streptokinase and, catheter-related bacterial sepsis, 92
Ascorbic acid, reaction with selenious acid, total parenteral nutrition solutions, 185
Azelaic acid, as energy substrate, preliminary studies, 299

Bacteremia, enteral nutrition as cause of, 228
Bacteria, translocation, protein malnutrition and (mice), 572
Blood sampling, heated dorsal hand vein, 102
Bloodstream, nosocomial infection, enteral nutrition solutions as cause of, 228
Body composition
  energy substrate influence, intravenous nutrition, 471
  insulin-like growth factor-I and, chronic malnutrition, 392
  parenteral nutrition effects, inflammatory bowel disease, pediatric patients, 366
Bone disease, metabolic, D-lactate accumulation and, long-term parenteral nutrition, 132
Book Reviews, 220, 335, 440, 562, 668,
Bowel disease
  inflammatory
    effects of parenteral nutrition on body compostion, pediatric patients, 366
    enteral nutrition-associated liver function test derangement, 401
Brain, serotonin receptors, after hepatectomy, effect of branched-chain amino acid, rat, 235
Brain damage, during pregnancy, fetal nutrition after, 432
Brush border, hydrolases, effect of oral refeeding, rat ileum and jejunum, 37
Burn injury
  amino acid metabolism, review article, 196
  enteral nutrition, lipid-associated diarrhea, letters, 221
  total parenteral nutrition, enriched branched-chain amino acids effect (rat), 484
  yeast translocation after, prevention by single enteral feeding, 565

Cachexia, cancer, artificial nutrition effects, 406
Calcium phosphate, pulmonary deposition, home total parenteral nutrition, 209
Cancer
  cachexia, artificial nutrition effects, 406
  forearm muscle dynamometry, as preoperative indicator, 34
  gastric, preoperative nutritional assessment, 286
  malnutrition, fatty acid profiles, 501
Candida albicans, translocation, prevention by enteral feeding, after burn injury, 565
Carbamazepine, *in vitro* recovery, in presence of absence of Ensure, 272
Cardiomyopathy
  reversible, selenium deficiency-associated, 663
  selenium deficiency and, acquired immunodeficiency syndrome, 644
Cast syndrome, in cerebral palsy, pediatric patient, 326
Catheter
  Broviac
    internal fracture, pediatric patient, 560
    securing method, pediatric patients, 218
  central venous
    implantable, alternative placement, 666
    repositioning method, 438
    subdural intravenous fat collection due to, neonate, 661
    testing for perforation, 309
  external, comparison, implanted reservoir, home total parenteral nutrition, 478
  Hickman
    indwelling, bacterial sepsis secondary to, 92
    infection, osteomyelitis of the clavicle secondary to, 426
  Hickman-Broviac, central venous thrombosis and, oncologic patients, 397
  indwelling, spontaneous retraction, letters, 442
  malposition, repositioning method, 438
  obstruction, total nutrient admixture, analysis of filter content, 641
  spontaneous retraction, letter, 564
Central nervous system, serotonin metabolism in, effect of fat emulsion infusion, rat, 65
Cerebral palsy, functional duodenal obstruction in, pediatric patient, 326
Cholecystectomy, esophagogastric decompression and enteral feeding after, randomized prospective trial, 377
Cholestasis
  effects of nutritional components on, neonatal rabbit, 265
  hyperalimentation-associated, oral gentamicin effect, neonate, 633
  total parenteral nutrition-induced, contributing factors, neonate, 586
Cholesterol, intravenous fat infusion and, postoperative patients, 77
Clavicle, osteomyelitis, secondary to catheter-related infection, 426
Coagulopathy, heparin-associated, in subclinical vitamin K deficiency, 324
Constipation, diabetes mellitus-related, nutritional support techniques, 84
Contamination
  bacterial
    continuous drip feedings, 18
    reused enteral nutrition systems, 23
Copper, deficiency, during total parenteral nutrition, case reports, 421
Corticosteroids, catabolic effect, major head injury, 372
Creatinine, urinary, energy expenditure related to, alcoholic hepatitis, 124
Crohns disease
  refractory, remission induction with whole diet, 362
  treatment comparison, steroids and bowel rest versus elemental diet, 455
Cysteine, total concentrations, cord blood tryptophan concentrations and, letter, 106
Cystic fibrosis, fat intake in, prospective study, 296

Decompression, esophagogastric, enteral feeding and, after cholecystectomy, 377
Dexamethasone, catabolic effect, major head injury, 372
Diabetes mellitus
  gastrointestinal disorders due to, overview, 84
  malnutrition during pregnancy, home total parenteral nutrition, 214
  parenteral nutrition and, review article, 545

Diarrhea
diabetes mellitus-related, nutritional support techniques, 84
enteral nutrition-associated, comparison, isomolar and hyperosmolar diets (dog), 465
lipid-associated, enteral nutrition, burn patient, letters, 221
pectin reversal, isotonic tube feeding formula, 117
Dicarboxylic acid, as energy substrate, preliminary studies, 299
Diet, high-protein, role in acid maltase deficiency, 321
Diethylhexylphthalate, extraction, from polyvinyl chloride bags, 59
Diluent, enteral feeding contamination and, 306
Dissolution mixtures, evaluation, obstructed feeding tubes, 81
Duodenum, functional obstruction, cerebral palsy, pediatric patient, 326
Dynamometry
forearm muscle, preoperative indicator, cancer patients, 34
hand grip, predictor of postoperative complications, 30
Dyspnea, after central venous catheter perforation, preventive testing, 309

Elemental diet, versus steroids and bowel rest, Crohn's disease, 455
Endotoxemia, protein malnutrition and, effect on mucosal architecture, small bowel (mice), 572
Energy expenditure
during acute pancreatitis, 26
resting, alcoholic hepatitis, 124
urinary urea nitrogen excretion and, spinal cord injury and head trauma, 277
Energy goal, tube feeding efficacy and, hospitalized patients, 387
Energy substrate
body composition and, intravenous nutrition, 471
dicarboxylic acid as, preliminary studies, 299
Enteral formula
carbamazepine and, concurrent administration, 272
comparison, standardization of, letter, 670
contamination
diluents and feeding bag usage, 306
nosocomial bloodstream infection caused by, 228
inadvertent intravenous administration, multiorgan failure after, 658
isomolar versus hyperosmolar, experimental ileus (dog), 465
microbiological monitoring, letter, 670
Enteral nutrition
bacterial contamination, during prolonged intermittent use, 23
continuous infusion
bacterial contamination, 18
low-lactose milk in, 157
subjective distress, silicone rubber vs. polyurethane, 281
during pregnancy, fetal outcome, brain-dead mother, 432
effect, cachetic cancer patients, 406
esophagogastric decompression and, after cholecystectomy, 377
gastric acidity and, comparison of diet regimens, 292
lipid tolerance, very low birth weight infants, 623
long-term
skin-level gastrostomies and jejunostomies for, 648
vitamin plasma levels, 525
single feeding, prevention of yeast translocation by, after burn injury, 565
total, changes in liver function tests related to, 401
warfarin resistance and, case report, 206
Enterectomy, effect on glucose exchange, visceral organ (dog), 128
Enterocolitis, necrotizing, feeding patterns and, infants, 520
Enzyme, jejunal and ileal, imbalance, after total parenteral nutrition, rat, 37
Erythrocyte
lipid composition, after total parenteral nutrition, rat, 47
polyamine levels, parenteral nutrition effect (rat), 590

Fat
emulsion
effect on infiltration of intravenous lines, infant, 628
serotonin metabolism and, central nervous system, portacaval shunted rat, 65
intake, cystic fibrosis patients, 296
intravenous, effect on lipids and high density lipoprotein heterogeneity, neonate, 490
intravenous emulsion
effect on neutrophil chemiluminescence, 608
effect on reticuloendothelial system function, 614
gastric emptying delayed by, 246
infusion intravenous, effect on neutrophil and platelet function, neonate, 620
peripheral, effect on venous patency, neonate, 637
short term, effect on serum lipids, postoperative patients, 77
subdural intravenous collection, complication of central venous catheterization, neonate, 661
upper arm, ultrasonography in nutritional assessment, 529
Fat-glucose, intravenous administration, metabolic and respiratory interactions, septic patients, 141
Fatty acid
metabolites, immune response and, rat, 1
polyunsaturated, reduction, malnourished cancer patients, 501
short-chain, intestinal mucosal growth stimulated by (rat), 109
Feeding bag, enteral feeding contamination and, 306
Feeding tube
nasoenteral, new nasal bridle for, 331
obstruction, evaluation, dissolution mixtures, 81
silicone rubber vs. polyurethane, continuous enteral nutrition, 281
Ferritin, as tumor marker, childhood malignancy, 162
Fetus, nutritional requirements, maternal brain damage, 432
Fever response, attenuation by fish oil diets (guinea pig), 136
Fish oil, effect on febrile response (guinea pig), 136
Fistula, colgastric, complication of percutaneous endoscopic gastrostomy, pediatric patients, 554

Gallstone disease, short bowel syndrome and, parenteral nutrition-dependent patients, 461
Gastric acidity, reduction, comparison of diet regimens, 292
Gastric emptying, intravenous fat emulsion and, 246
Gastroesophageal reflux, intravenous fat emulsion and, 246
Gastroparesis, diabetes mellitus-related, nutritional support techniques, 84
Gastrostomy
percutaneous endoscopic, cologastric fistula after, pediatric patients, 554
skin-level, long-term enteral feeding, 648
tube reinsertion, Seldinger technique, 436
Gentamicin
oral, hyperalimentation-associated cholestasis treated with, neonate, 633
stability, total nutrient admixture, 505
Geriatrics, quality of nutritional care, 249
Glucose
exchange, postoperative, enterectomy effect (dog), 128
parenteral, hepatic dysfunction and, rat, 240
Glutamine, intravenous, maintenance of small bowel mucosa with (rat), 579
Grip strength, age standardized, postoperative complications predicted by, 30
Growth, effects of alimentary whey proteins, (fed and starved rats), 382
Growth hormone, human, protein metabolism and (septic rat), 450

Head injury
catabolic effect of dexamethasone, 372
hormonal and metabolic changes after, 5
urinary urea nitrogen excretion and energy expenditure, comparison, spinal cord injured patients, 277
Heparin, risk, in subclinical vitamin K deficiency, 324
Hepatitis, alcoholic, resting energy expenditure in patients with, 124
Hormone, nitrogen metabolism and, after severe head injury, 5
Hospital, vitamin prescription in, general medical ward, 262
Hyperalimentation, cholestasis after, oral gentamicin effect, neonate, 633
Hypersensitivity, after lipid emulsion, 318

Ileum, response of brush border hydrolases, after total parenteral nutrition, rat, 37
Ileus, experimental, isomolar versus hyperosmolar enteral diets (dog), 465
Immune function, steroids and bowel rest versus elemental diet, Crohn's disease, 455

Immune system, cells and humoral factors of, immunological testing, 651
Infant
  necrotizing enterocolitis, feeding patterns and, 520
  peripheral parenteral nutrition, fat emulsion effect on infiltration of intravenous lines, 628
  preterm, response to aluminum, parenteral nutrition, 516
  very low birth weight, lipid tolerance, intravenous and enteral feeding, 623
Infection
  catheter-related
    fibrinolytic and antibiotic therapy, 92
    osteomyelitis of the clavicle secondary to, 426
  nosocomial, bloodstream, enteral nutrition solutions as cause of, 228
Inferior epigastric vein, alternative placement of implantable central venous catheter, 666
Infiltration, peripheral cannula, fat emulsion effect, infants on peripheral parenteral nutrition solutions, 628
Insulin, adsorption, ethylenvinylacetate bags, 24-hour infusion, 539
Insulin-like growth factor-I, as nutritional parameter, chronic malnutrition, 392
Intestinal mucosa, growth stimulation, short-chain fatty acids (rat), 109
Intralipid, gastric emptying delayed by, 246
Iron, nutritional status, childhood malignancy, 162

Jejunostomy
  polyamine content, refeeding and, 13
  skin-level, long-term enteral feeding, 648
Jejunum, response of brush border hydrolases, after total parenteral nutrition, rat, 37

D-Lactate accumulation, metabolic bone disease and, long-term parenteral nutrition, 132
Lactose, digestion and tolerance, undernourished continuously enteral-fed patients, 157
Letters to Editor, 106, 221, 441, 670
Leucine, total parenteral nutrition enriched by, burn injury (rat), 484
Lipid
  composition, after total parenteral nutrition, rat erythrocyte, 47
  diarrhea and, burn patient, enteral nutrition, letters, 221
  dietary manipulation, effect on febrile response (guinea pig), 136
  emulsion
    effect on venous patency, neonate, 637
    infusion, hypersensivity after, 318
  macrophage function and, rat, 1
  tolerance, very low birth weight infants, intravenous and enteral feeding, 623
Lipoprotein, high density, heterogeneity, effect of intravenous fat, neonate, 490
Lipoprotein X, after intravenous fat infusion, postoperative patients, 77
Liquid diet, artificial, queuine content, 542
Liver
  dysfunction, intravenous nutrition and, rat, 240
  regeneration, role of nucleic acid compounds, rat, 51
Liver function test, enteral nutrition-associated changes, inflammatory bowel disease, 401
Lung, calcium phosphate precipitation, home total parenteral nutrition, 209

Macrophage, altered function, in dietary immunoregulation, rat, 1
Malnutrition
  cancer patients, reduction of polyunsaturated fatty acids in, 501
  insulin-like growth factor-I concentration in, 392
  pregnant diabetic patient, home total parenteral nutrition, 214
  protein, bacterial translocation and (mice), 572
  pulmonary emphysema, nutritional repletion in patients with, 152
  resting energy expenditure in, alcoholic hepatitis, 124
Manganese, plasma concentrations, parenteral nutrition, pediatric patients, 168
Medical cost, Medicare prospective reimbursement, impact on nutritional support patients, 71
Mortality
  home parenteral nutrition, United Kingdom and Ireland, 172
  risk index, men, extended care facility, 189
Multiorgan failure, after inadvertent intravenous administration of enteral feeding, 658
Muscle
  dystrophies, overfeeding in children with, 603
  skeletal, inhibited amino acid uptake, during starvation (rat), 344
  upper arm, ultrasonography in nutritional assessment, 529

Nasal bridle, nasoenteral feeding tube secured by, 331
Neonate
  cholestasis, total parenteral nutrition-induced, 586
  hyperalimentation-associated cholestasis, oral gentamicin treatment, 633
  intravenous fat nutrition, high density lipoprotein heterogeneity with, 490
  neutrophil and platelet function, effect of intravenous fat infusion, 620
  parenteral nutrition, medium-chain triglyceride, 312
  subdural intravenous fat collection, central-venous catheter-associated, neonate, 661
  total parenteral nutrition, cholestasis during, rabbit, 265
  venous patency, lipid emulsion effect, 637
Neutrophil
  chemiluminescence, suppression by intravenous fat emulsion, 608
  effect of intravenous fat infusion on, neonate, 620
Nitrogen balance, postoperative, stanozolol effect, 349
Nitrogen retention
  effects of alimentary whey proteins, (fed and starved rats), 382
  pentobarbital effect, sepsis (rat), 359
Nucleoside, effect on DNA and RNA syntheses, cultured hepatocytes and hepatoma cells, rat, 51
Nucleotide, effect on DNA and RNA syntheses, cultured hepatocytes and hepatoma cells, rat, 51
Nutrition
  artificial, effect, cachetic cancer patients, 406
  dietary immunoregulation, altered macrophage function, rat, 1
  intravenous
    anabolic steroids and, early postoperative period, 349
    influence of energy source on body composition, 471
    lipid tolerance, very low birth weight infants, 623
    preoperative, hepatic synthesis and, 596
  patterns of care, geriatric patients, 249
Nutritional assessment
  preoperative, gastric cancer patients, 286
  ultrasonographic method, 529
Nutritional supplementation, malnourished patients with emphysema, 152
Nutritional support
  home, systemic scleroderma, 147
  Medicare prospective reimbursement impact, role of pass through payment, 71

Oleic/stearic acid ratio, elevation, malnourished cancer patients, 501
Osteomyelitis, clavicular, secondary to catheter-related infection, 426
Overfeeding, muscle dystrophy patients, 603

Pancreas, hormone secretion, after severe head injury, 5
Pancreatitis, severe acute, energy expenditure during, 26
Parenteral nutrition
  aluminum loading, preterm infants, 516
  body composition and, inflammatory bowel disease, pediatric patients, 366
  diabetic patients, review article, 545
  differential effects, tumor growth and erythrocyte polyamine levels (rat), 590
  during pregnancy, fetal outcome, brain-dead mother, 432
  glutamine-enriched, maintenance of small bowel mucosa with (rat), 579
  home
    mortality, 172
    patient survey, 255
  long-term, D-lactate accumulation and metabolic bone disease, 132
  medium-chain triglyceride, neonate, 312

peripheral, infiltration, effect of fat emulsion, infant, 628
plasma manganese concentrations and, pediatric patients, 168
prolonged, intracardiac thrombus after, 557
short bowel syndrome, gallstone disease in patients with, 461
total
ascorbic acid-selenious acid reaction, 185
cholestasis after, contributing factors, neonate, 586
cholestasis during, neonatal rabbit, 265
copper deficiency during, case reports, 421
effect, cachetic cancer patients, 406
erythrocyte lipid composition after, rat, 47
home, implanted reservoir versus external catheter, 478
home, pregnant diabetic after jejunoileal bypass, 214
home, pulmonary calcium phosphate precipitation, 209
home, systemic scleroderma, 147
intravenous fat effect on lipids and high density lipoproteins heterogeneity, neonate, 490
metabolic-respiratory responses, septic patients, 141
multiple vitamin preparation, pediatric patients, 176
nucleic acid effect on cultured cells, rat, 51
patient selection for, 535
serum amino acid pattern, comparison of 2 solutions, pediatric patients, 41
subdural intravenous fat collection during, neonate, 658
suitability of dicarboxylic acids, 299
total nutrient admixture, catheter blockage, 641
vancomycin hydrochloride admixture, pediatric patients, 63
vitamin E status, plasma and red blood cell, 510
Patient
discomfort, silicone rubber vs. polyurethane feeding tube, 281
prognosis
mortality risk index, men, extended care facility, 189
total parenteral nutrition and, intensive care unit, 535
self-referral, A.S.P.E.N. Board of Directors statement, i
Pectin, supplementation, isotonic tube feeding formula, 117
Pediatrics: *see also* Infant, Neonate
alternative vancomycin delivery, catheter-related infection, 63
aluminum loading, preterm infants, parenteral nutrition, 516
Broviac catheter
internal fracture, 560
securing method, 218
cancer, iron nutrition in, 162
cologastric fistula, after percutaneous endoscopic gastrostomy, 554
functional duodenal obstruction, cerebral palsy, 326
inflammatory bowel disease, effects of parenteral nutrition on body composition, 366
muscle dystrophies, effects of overfeeding, 603
necrotizing enterocolitis, feeding patterns and, 520
parenteral nutrition
plasma manganese concentrations, 168
serum amino acid pattern, comparison of 2 solutions, 41
prolonged intravenous therapy, aluminum levels and tissue loading, preterm twins, 428
total nutrient admixtures, amikacin, gentamicin, and tobramycin stability, 505
total parenteral nutrition
intravenous fat effect on high density lipoprotein heterogeneity, neonate, 490
multiple vitamin preparation, 176
Pentobarbital, nitrogen retention improved by, sepsis (rat), 359
Platelet, effect of intravenous fat infusion on, neonate, 620
Pneumonitis, granulomatous interstitial, after calcium phosphate deposition, home total parenteral nutrition, 209
Polyamine, intestinal, refeeding and, 13
Polyvinyl chloride, container for total nutrient solution, diethylhexylphthalate extraction from, 59
Pregnancy
after jejunoileal bypass, home total parenteral nutrition, diabetic patient, 214
intravenous nutritional support during, letters, 441
Protein
catabolism, energy expenditure and, acute pancreatitis, 26
hepatic synthesis, preoperative intravenous nutrition and, 596
metabolism
human growth hormone effect, sepsis (rat), 450
steroids and bowel rest versus elemental diet, Crohn's disease, 455
plasma concentrations, preoperative intravenous nutrition and, 596
Protein sparing, amino acid infusion, surgical patients, 223

Queuine, content, artificial liquid diets (mice), 542

Refeeding, oral, effect on brush border hydrolases, rat ileum and jejunum, 37
Reservoir, implanted, comparison, external catheter, home total parenteral nutrition, 478
Respiratory deficiency, acid maltase deficiency-related, role of high-protein diet, 321
Reticuloendothelium, effects of long-chain triglyceride emulsions, 614
Rhoads Lecture for 1989, The practice of clinical nutrition: how to prepare for the future, 337

Scleroderma, systemic, nutritional support, 147
Seldinger technique, tube reinsertion, gastrostomy, 436
Selenious acid, chemical stability, total parenteral nutrition solutions containing ascorbic acid, 185
Selenium
deficiency
cardiomyopathy and, acquired immunodeficiency syndrome, 644
reversible cardiomyopathy due to, 663
Sepsis
energy expenditure and, acute pancreatitis, 26
metabolic and respiratory interactions, impact of glucose and fat administration, 141
nitrogen retention, pentobarbital therapy (rat), 359
protein metabolism, effect of human growth hormone (rat), 450
Serotonin, metabolism, fat emulsion infusion effect, portacaval shunted rat, 65
Serotonin receptor, after total hepatectomy, effect of branched-chain amino acid treatment, rat, 235
Sex, grip strength related to, predictor of postoperative complications, 30
Short bowel syndrome, parenteral nutrition-dependent patients, gallstone disease and, 461
Small bowel
mucosa, maintenance with intravenous glutamine (rat), 579
mucosal architecture, effects of protein malnutrition and endotoxemia (mice), 572
Stanozolol, intravenous nutrition and, early postoperative period, 349
Starvation, amino acid uptake during, skeletal muscle (rat), 344
Steroids
anabolic, intravenous nutrition and, early postoperative period, 349
with bowel rest, versus elemental diet, Crohn's disease, 455
Streptokinase, antibiotic therapy and, catheter-related bacterial sepsis, 92
Subclavian vein, implantation of vascular access system, 329

Testing, immunological, basics of, 651
Thrombosis
central venous
after prolonged parenteral nutrition, 557
Hickman-Broviac catheter-associated, oncologic patients, 397
Tobramycin, stability, total nutrient admixture, 505
Tocopherol, plasma and red blood cell status, during total parenteral nutrition, 510
Total nutrient admixture
catheter obstruction, analysis of filter content, 641
stability of amikacin, gentamicin, and tobramycin in, 505
Triglyceride
clearance, intravenous fat infusion and, postoperative patients, 77
long-chain, emulsion, effect on reticuloendothelial system, 614
medium chain, neonatal parenteral nutrition with, 312
Tryptophan, cord blood concentrations, total cysteine concentrations and, letter, 106
Tube feeding
continuous drip, microbial contamination, 18
efficacy, meeting energy requirements, hospitalized patients, 387
isotonic formula, pectin supplementation, 117
Tumor growth, effect of parenteral nutrition on (rat), 590

Ultrasonography, midarm fat and muscle, nutritional assessment by, 529
Urea nitrogen, urinary excretion, energy expenditure and, severe head trauma and spinal cord injury, 277
Urine, polyamine content, refeeding and, 13
Urticaria, after lipid emulsion infusion, 318

Vancomycin hydrochloride, admixture, stability and delivery, pediatric patients, 63
Vascular access system, implantation, subclavian vein method, 329
Venous access, totally implanted system, *in situ* breakage, 99
Vitamin
  plasma levels, long-term enteral feeding patients, 525
  prescription, general medical ward, 262
  supplementation, blood levels, pediatric patients on total parenteral nutrition, 176
Vitamin E, plasma and red blood cell status, during total parenteral nutrition, 510
Vitamin K
  enteral nutrition products, warfarin resistance and, case report, 206
  subclinical deficiency, heparin hazards, 324

Warfarin, prothrombin time response, interference, enteral nutrition products, 206
Whey proteins, alimentary, effect on growth and nitrogen retention (fed and starved rats), 382
Whole diet, high calorie, refractory Crohns disease, 362

Yeast, translocation, prevention by enteral feeding, after burn injury, 565

Author Index to Volume 13

Abad A, 401
Abernathy GB, 387
Adami GF, 392
Adams LJ, 124
Afdhal NH, 362
Agolini G, 441
Agradi E, 501
Ahlburg P, 152
Ajani JA, 590
Akahoshi MP, 77
Akerman PA, 562
Alahuhta SM, 432
Albers JJ, 490
Alexander JW, 1, 222, 565, 651
Almond DJ, 471
Ament ME, 246
Androulakis J, 34
Annat GJ, 26
Antonecchia PP, 644
Aoki TT, 102
Arain I, 608
Arcangeli MA, 102
Arcieri-Mastromattei E, 299
Aserin A, 641
Au FC, 436
Austin MA, 490

Babcock GF, 1
Baenziger JC, 505
Baker H, 525
Barone JE, 438
Barreca A, 392
Barrett JA, 608
Bell SJ, 84
Bellantone R, 539
Bendon R, 516
Bengtsson F, 65, 235
Benitez MM, 590
Benotti PA, 461
Benson DW, 318
Benzel RA, 262
Berg RD, 572
Berman JM, 109
Berner Y, 525
Bernstein LR, 255
Bertrand OM, 26
Bhatia J, 240
Bilik R, 641
Bisaillon S, 637
Bistrian BR, 84, 136, 220, 440, 461, 545, 614
Black CD, 505
Black PR, 102
Blackburn GL, 84, 136, 461, 614
Blakemore WS, 372
Block C, 620
Boldrini G, 141
Bossaert LL, 321
Bossola M, 539
Bouffard YH, 26
Bower RH, 92, 318
Bozynski MEA, 428
Bozzetti F, 406, 501
Brandt K, 306
Brinson RR, 221
Brion F, 176
Brolin RE, 465
Brooks DC, 102
Brown A'D, 529
Bugge M, 65, 235
Bullock L, 505
Bunodiere M, 176
Burkinshaw L, 471
Burns HJG, 349
Butzler J-P, 228
Buzby GP, 359

Cabaniss ML, 214
Cabré E, 401
Carlson S, 670
Carter DC, 349
Casaubon PR, 246
Castagneto E, 299
Castagneto M, 141
Catarau E, 240
Causse MB, 176
Cella F, 392
Cezard J-P, 382
Chait A, 132
Chang RWS, 535
Chang T-H, 590
Chernoff R, 249
Chessex P, 637
Chiarla C, 141
Chiba T, 529
Chiolero R, 5
Christenson JW, 23
Christides JP, 176
Clark JH, 505
Claunch C, 478
Clemmer TP, 71
Cochran EB, 628
Cody RP, 465
Condon-Meyers A, 529
Coran AG, 586
Craig RM, 441
Criqui C, 176
Crucitti F, 539
Cusson G, 209
Cynober L, 196

Dahlstrom KA, 246
D'Amore F, 152
Daniel MG, 359
Daniels TA, 106
Davidian M, 644
Davies JWL, 349
de Courcy GP, 176
Deitch EA, 572
Delafosse BX, 26
Del Monte P, 392
Demey HE, 321
Dempsey R, 277
Dennis RS, 372
de Tribolet N, 5
D'Harlingue AE, 490
Dickerson RN, 359
Dintsman M, 641
Doffoel M, 37
Doglietto GB, 539
Dolz C, 401
Dougenis D, 34
Driscoll DF, 545
Drongowski RA, 586
Dworkin BM, 644

Egging PK, 59
Eisenfeld L, 620
Elmore MF, 377
Emde C, 281, 292
Epstein MD, 565

Fagerman KE, 670
Farkas WR, 542
Faus MJ, 41
Felber J-P, 5
Feld LG, 366
Feller AG, 189
Ferlauto JJ, 623
Fidanza SJ, 168
Finotti E, 299
Fiorenza V, 441
Fischer JE, 344
Fitzgerald JF, 505
Flynn NM, 18
Forbes DJ, 623
Forte TM, 490
Fortini P, 392
Fox AD, 109
Frank O, 525
Freedland CP, 18
Freeman J, 5
Freund HR, 603
Fried RC, 359
Friesen E, 272
Fujita M, 421
Fumi L, 441

Gallagher SC, 377
Galli C, 501
Galluser M, 37
Gambetta A, 501
Ganther HE, 185
Garcia ME, 162
Garden OJ, 349
Gassull MA, 401
Geiger JW, 372
Genzel-Boroviczeny O, 490
Gerdes H, 648
Gerdin B, 666
Gil A, 41
Giné JJ, 401
Giordano G, 392
Giovannini I, 141
Glick MR, 505
Goldstein M, 603
Goldwater DL, 128
González-Huix F, 401
Goodall MA, 168
Goolishian W, 218
Gorski AM, 176
Gottschlich MM, 222
Gourley WK, 240
Grabowski G, 147
Graham TR, 623
Grant JP, 147
Gray DS, 214
Greco AV, 299
Greenblatt SH, 372
Griggs B, 318
Groh-Wargo SL, 520
Grossie VB Jr, 590
Grunow JE, 23
Grylack LJ, 633
Gura P, 565

Hak LJ, 387
Hall H, 235
Hambidge KM, 168
Hancock BG, 505
Hansell DT, 349
Hasebe M, 484
Hasselgren P-O, 344
Hata S, 265
Hawkins R, 246
Hayashi RJ, 77
Heikkinen JE, 432
Heizer WD, 387
Herfindal ET, 255
Herlin P, 65, 235
Hermann-Zaidins M, 648
Herrmann M-E, 281
Herson VC, 620
Hioki K, 286
Hiyama DT, 318
Holbcomb GW, 554
Holcombe BJ, 387
Holian O, 608
Hopert R, 292
Hosoda N, 286
Howard L, 478
Humberstone DA, 223
Hummel RP, 344
Hwang TL, 579

Innis SM, 47
Inoue S, 565
Irving MH, 172
Istfan NW, 614
Itakura T, 421

Jacobs P, 565
Jacobs S, 535
James JH, 344
Jeppsson B, 65, 235
Jequier E, 5
John WJ, 124
Jones JG, 377

Kalfarentzos F, 34
Kamata S, 265
Kanbara Y, 51
Kanemaki T, 286
Kao LC, 490
Kaplan LA, 516
Karton MA, 132
Kassam RM, 272
Katze J, 542
Kayal TJ, 438
Kelly FJ, 510

Kelly J, 362
Keogh JB, 30
King RFGJ, 471
Kirby DF, 441
Kirvelä O, 99
Knowles JB, 209
Kobayashi K, 484
Koea J, 223
Kohlhardt SR, 442
Kolpek JH, 277
Konefal S, 218
Konrad P, 560
Koo WWK, 516
Koons KK, 377
Korelitz JL, 658
Koruda MJ, 117
Kovar IZ, 661
Kraus RJ, 185
Krause PJ, 620
Kravitz AB, 426
Kripke SA, 109
Krog M, 666
Krug-Wispe SK, 516
Kudzia K, 255
Kurzer M, 77

Lacombe G, 37
Lacy JA, 318
LaFrance R, 92
Laughland A, 471
Laughlin K, 13
Lebenthal E, 366
Lee B, 535
Lemarchand Th, 5
Lerner A, 366
Levy J, 228
Lewis JA, 92
Li M, 572
Liehr RM, 281, 292
Lima LAM, 312
Lin C-H, 366
Lipkin EW, 132
Lipman TO, 262
Lipschitz DA, 249
Lloyd DA, 529
Lloyd-Still JD, 296
Locock RA, 272
Long CL, 372
Lopes SM, 136
Loscertales M, 41
Lutomski DM, 206

Maag U, 5655
MacMahon P, 661
Maderazo EG, 620
Maldonado J, 41
Malenka DJ, 309
Manji N, 461, 545
Manna R, 539
Marcuard SP, 81, 663
Marinier E, 176
Marino F, 299
Martin JE, 206
Martin JJ, 321
Mascioli EA, 136, 461, 614
Mattson DE, 189
Mazur HI, 59
McClain CJ, 124
McCormick PA, 362
McCoy H, 63
McCulloch I, 557
McDowell R, 478
McMahon M, 545
McMahon MJ, 471, 596
Meguid MM, 77
Mehta NR, 633
Mendy F, 382
Meranze SG, 443
Merrow L, 71
Meyer S, 603
Migliore A, 539
Mingrone G, 299
Minuto F, 392
Mittman RJ, 318
Miyauchi Y, 450
Mogard M, 246
Molina JA, 41
Moore JJ, 520
Morales M, 157
Mori E, 484
Moriarty MS, 249
Morse R, 525
Mosconi C, 501
Moss JF, 397
Motin JP, 26
Moutos D, 23
Movahed A, 663
Mullen JL, 359
Murray RL, 562

Naglie RA, 428
Nagraj HS, 189
Navarro J, 176
Newell RW, 623
Newman LA, 30
Nezu R, 265
Nishi M, 286
Nishimatsu S, 51
Nishioka K, 590
Nobin A, 65, 235
Nompleggi D, 84
Nuutinen LS, 432

O'Donoghue DP, 362
O'Dwyer ST, 579
Ogden J, 455
Ogle CK, 651
Ogle JD, 651
Ohyanagi H, 51
Okada A, 265, 421
Okamura K, 450
O'Keefe SJD, 455
Okuma T, 450
Orme JF, 71
Ota DM, 590
Otte KE, 152
Ott L, 124
Ott LG, 277
Ott SM, 132

Pacelli F, 539
Pasquetti A, 157
Patenia D, 590
Pencharz P, 326
Pennington CR, 557
Perez RV, 1
Perez SK, 306
Periago JL, 41
Perpête C, 228
Perri V, 539
Peterson H, 71
Peterson M, 71
Phelps SJ, 628
Phillips R, 124
Phuangsab A, 608
Picone TA, 106
Piedboeuf B, 637
Pineault M, 637
Pittard WB III, 106
Pitts WM, 221
Pomposelli JJ, 136
Ponto KH, 106
Porter KA, 614
Potter P, 455
Poullain M-G, 382
Prové AM, 321

Raasch RH, 387
Rapp RP, 277
Rassin DK, 240
Ratto C, 539
Raul F, 37
Rayport M, 372
Record KE, 277
Reddell MT, 465
Reed RL, 128
Reeves WC, 663
Rettmer R, 132
Reyniers JP, 542
Ricour C, 176
Riddlesberger MM, 366
Riecken EO, 281, 292
Riihimaki DU, 397
Rivera A Jr, 240
Robin AP, 608
Roccaforte P, 608
Roger L, 382
Rolandelli RH, 117
Roller RD, 18
Rombeau JL, 109, 117, 445
Rosado JL, 157
Rosenthal WS, 644
Ross AJ, 554
Ross JM, 309
Rossi TM, 366
Roughneen PT, 128
Rowlands BJ, 128
Rubin D, 644
Rubin M, 641
Rudman D, 189
Rund J, 455

Saitoh Y, 51
Salloum LJ, 438
Satokari K, 99
Schifferdecker C, 668
Schilling CG, 63
Schlegel KE, 387
Schmalhausen AW, 377
Schmit P, 560
Schutz Y, 5
Schwarz KB, 324
Scopinaro N, 392
Scott C, 490
Sedman AB, 428
Seidner DL, 614
Selleck K, 614
Settle RG, 109, 117
Shah MC, 324
Shaw JHF, 223
Shenkin A, 349
Shike M, 525, 648
Shikora SA, 5726
Sinai Y, 641
Sitrin MD, 209
Smith AE, 296
Smith F, 644
Smith M, 209
Smith RC, 442
Smith RJ, 579
Snyder AB, 438
Sofo L, 539
Sokol RJ, 168
Souba WW, 128
Specian RD, 572
Spiliotis J, 34
Spurr SG, 633
Stefan MM, 554
Stegall KL, 81
Stein TP, 117, 359
Stellfeld M, 152
Stennett DJ, 59
Stokes MA, 172
Strange PS, 377
Stringer DA, 326
Succop P, 516
Sullivan DH, 249
Sutton GLJ, 510
Suzuki H, 484

Tabira Y, 450
Tacchino R, 299
Takagi Y, 265, 421
Tanhoefner H, 281
Taylor M, 30
Terz JJ, 397
Thomas FO, 71
Thompson JS, 13
Thompson M, 596
Tibbs P, 277
Timchalk M, 478
Trocki O, 565
Trogdon S, 81

Uden DL, 63
Ulicny KS Jr, 658
Usami M, 51

Vaisman N, 326
Vandewoude MFJ, 321
van Eys J, 162
Van Laethem Y, 228
Van Meerbeeck JP, 321
Vargas J, 246
Velimezis G, 34
Verhaegen G, 228
Viale JP, 26

Wade E, 670
Wagman LD, 397, 560, 564
Wallach C, 648
Wan JMF, 668
Wang Y-M, 162
Wareham JA, 623
Warner BW, 344
Watson DM, 63
Webb AE, 30
Wedel I, 235
Weiss L, 644
Wells DH, 623
Wenzel RP, 228
Wessel HU, 296
Willis SE, 663
Wilmore DW, 102, 337, 579
Wilson CA, 623
Wolfe BM, 18
Wong A, 255
Wright EJ, 428

Xiol X, 401

Yamamoto M, 286
Yamanaka H, 286
Young B, 277
Young GA, 596
Young S, 661

Zabielski PB, 520
Zeiderman MR, 596
Zimmaro DM, 117
Ziv Y, 641